

Heitor Gouvêa

Information Security Professional & Technical Writer

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SUMMARY

My work is focused on understanding threat models, analyzing existing applications and building intelligent tools to combat risk current and future security for both individuals or groups. I have audited high profile websites for security vulnerabilities and have managed and worked in teams of software developers and computer scientists delivering high security architectures.

I have experience developing in a wide array of programming languages including: Shell Script, JavaScript, Perl and Mojo Framework. I like information security and software development, particularly in the areas of secure protocols, cryptography, privacy, and anonymity. But I also secretly hate technology. More specifically I work on projects that help people take control of their own informations.

I have knowledge of telecommunication and internet protocols including, but not limited to: TCP/IP, UDP, HTTP, FTP, SSH, SMTP and Telnet.

The largest project I work on is Nipe: a tool to make Tor Network your default gateway. Nipe enables you to directly route all your traffic from your computer to the Tor Network through which you can surf the Internet Anonymously without having to worry about being tracked or traced back.

On my profile on Github you can see some of my codes written during my researches:

<https://github.com/GouveaHeitor>

EXPERIENCE

Security Data Scientist

04/2018 - PRESENT

Confidential

Part of team responsible for research and development of security-oriented software from date.

Main activities: assist in the survey of project requirements, responsible for defining the architecture of the project, performing analytical experiments aligned with long-term strategic initiatives, defining additional sources of data / records that can help in the evolution of the product and data analysis to identify malicious activities. Team comprises computer scientists, data scientists and cyber security domain experts with significant experience in identifying the most sophisticated attacks on large, well-protected organizations.

Security and Development Analyst

11/2017 - 03/2018

Horizon Four

I acted providing consulting in the field of information security offensive to institutions, private companies and governmental organizations. My work was focused on writing business proposal models, confidentiality and reports, and understanding threat models, analyzing existing applications and building intelligent tools to combat current and future security risk for both individuals or groups.

Information Technology Trainee

04/2016 - 11/2017

IMA - Computer Associates Municipalities S/A

I participated in the trainee program in order to be trained and prepared to assume strategic positions in the future. During the trainee process I worked directly with clients understanding their problems and later proposing some solutions, developing, performing vulnerability analyzes and maintaining Government Systems that used technologies like: PHP 7, Symfony Framework, JavaScript, CoffeeScript, Doctrine, MySQL, Twig, Ruby On Rails and others technologies.

TECHNICAL SKILLS

Network: TCP/IP, UDP, HTTP, FTP, SSH, SMTP and Telnet

Architecture: Scalability, Distributed system, Decentralized systems, High architecture, Parallel computing and Design patterns

Front-end: HTML5, CSS3, MaterializeCSS, Sass, JavaScript and AngularJS

Back-end: Shell Script, Perl and Mojo Framework

Database: MySQL and PostgreSQL

Tools: Bower, Git, Npm, Jekyll, Grunt and Docker

Application Security: Hardening, Cryptography, Cryptanalysis, Vulnerability analysis, Penetration testing and Secure code review

Agile Methods: Scrum and Extreme Programming

Others: Web performance, SEO, Responsive Design, Cross-browser, OOP, UML, Progressive Web Apps and Linux Administration

LANGUAGES

Portuguese: native proficiency

English: limited working proficiency